

THE MIAMI CONSERVANCY DISTRICT

38 EAST MONUMENT AVENUE  
DAYTON, OHIO 45402  
513 223-1271



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April 16, 1974

US EPA RECORDS CENTER REGION 5



469062

RECEIVED APR 17 1974

Mr. Thomas J. Wittmann, President  
Systems Technology Corporation  
3131 Encrete Lane  
Dayton, Ohio 45439

Re: Approval of Franklin  
Liquid Disposal Facility

Dear Mr. Wittmann:

Subject to the conditions of your Sewer Service Agreement with the City of Franklin, the provisions of your lease with the Water Conservation Subdistrict of The Miami Conservancy District and compliance with applicable Federal, State and local laws and regulations, approval for discharge of pretreated industrial wastes to the Franklin Area Wastewater Treatment Plant is granted to the Systems Technology Corporation.

An approved copy of your General Plan for Treatment of Industrial Liquid Wastes is returned herewith.

Very truly yours,

THE MIAMI CONSERVANCY DISTRICT

By:

*W. T. Eiffert*  
W. T. Eiffert  
Chief Engineer  
Water Resources

WAF:pjs

Enclosure

TECHNICAL DESCRIPTION OF THE  
SYSTECH WASTE TREATMENT CENTER

FRANKLIN, OHIO

Systems Technology Corporation has established the Systech Waste Treatment Center at Franklin, Ohio to provide industry with a commercial service for the proper treatment of liquid industrial wastes. The facility is currently designed to process the following types of wastes

- Acids and Bases
- Water/Oil Emulsions such as cutting
- Fluids and Washer compounds
- Plating Wastes
- and - Other select compatible liquid wastes

The Systech Waste Treatment Center was constructed by modifying the abandoned Franklin Sewage Treatment Plant (trickling filter) as shown in STC Drawing No. D-1199. The Center operates on a batch treatment basis, i.e. wastes are received and stored in the various holding vessels until a volume sufficient for treatment is accumulated, then treated according to the specific nature of the material. It operates as a pretreatment works because the treated wastes are then pumped to the Miami Conservancy Wastewater Treatment Plant for final treatment and discharge.

The facility was constructed by modifying the old plant as follows. The primary clarifier, trickling filters, and the dosing chamber were all modified to be receiving and storage facilities as shown in Drawing No. D-1199. The final clarifier was modified to serve as the treatment tanks. Above ground storage tanks were installed to provide storage for treatment chemicals and recovered oil. The piping was modified to accomodate the transfer of wastes from the holding tanks to the treatment tanks. Finally, piping from the final clarifier (treatment tanks) was modified and connected to the force main serving the Miami Conservancy District Regional Wastewater Treatment Plant.

The storage and treatment of wastes is accomplished as follows. Strong acids and bases are stored in the modified and lined primary clarifiers. These materials can be transferred to the treatment tanks through 2 inch diameter buried pipes. The pipes are encased in a 12 inch V.P. which was used as the by-pass in the "old plant". Oily wastes are stored in the modified trickling filters. These materials can be transferred to the treatment tanks through a 15 inch V.P. that was used to connect the trickling filters to the final clarifier in the "old plant." Plating wastes are stored in the modified and lined dosing tanks where they may also be treated in smaller quantites. These wastes can be transferred to the treatment tanks by a pump and flexible line that will discharge into the 15 inch V.P. serving the oily waste storage tanks.

The treatment process will be performed on a batch basis as follows. When a sufficient volume of waste has accumulated it will be transferred to the treatment tanks. Samples will be taken to the laboratory for testing and "jar test" treatment will be performed. Based on these data the treatment process will be defined and subsequently performed. The treated wastes will again be tested and then transferred to the Miami Conservancy District Regional Wastewater Treatment Plant.

The wastes to be processed will be a composite of the various wastes being generated in a 150 to 200 mile radius of the Franklin Plant. Because of this it is not possible to characterize them specifically. We are of the opinion, however, that the composite will approximate those liquid wastes that are characteristic of metal working manufacturing operations. As stated above, we anticipate treating acids, bases, oily wastes, plating wastes and other select wastes.

Systems Technology Corporation will treat all wastes to a quality consistent with the pre-treatment requirements of the Federal Water Quality Act of 1972. Furthermore the firm is contractually bound to do so by its agreements with the MCD and the City of Franklin. For example, the "Wastewater Treatment Agreement" states that, "The company further agrees that all wastes discharged to the Franklin area waste water treatment plant will conform to the limits of all applicable Federal and State pre-treatment standards and guidelines, both existing and future". Section 8 of the agreement also specifies limitations on the types of materials that can be discharged to the "Regional Plant".